



U.S. Department of Energy
Energy Efficiency and Renewable Energy

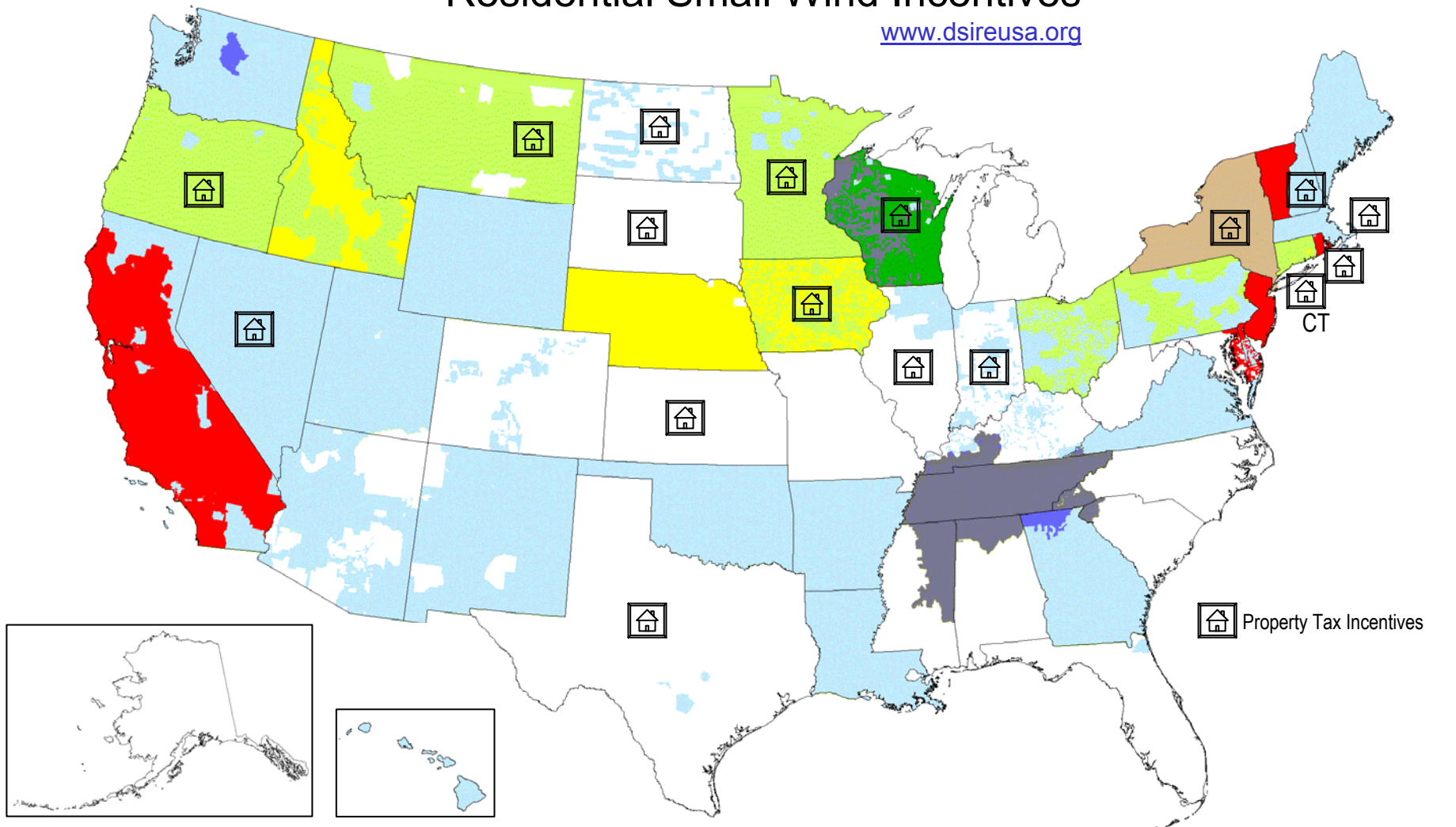
Overview of WPA – Distributed Wind Turbine Activities

Trudy Forsyth,
Jim Green, Tony Jimenez, Ruth Baranowski,
Cynthia Szydlek



Residential Small Wind Incentives

www.dsireusa.org



BUYDOWNS



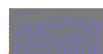
Buydown

Buydown,
Net Metering,
& Loans



Buydown & Net
Metering

PROD. INCENTIVES



Productivity
Incentives &
Loans

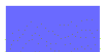


Net Metering,
Loans & Prod.
Incentives

MINOR INCENTIVES



Loans



Net Metering &
Prod. Incentives



Net Metering &
Loans*



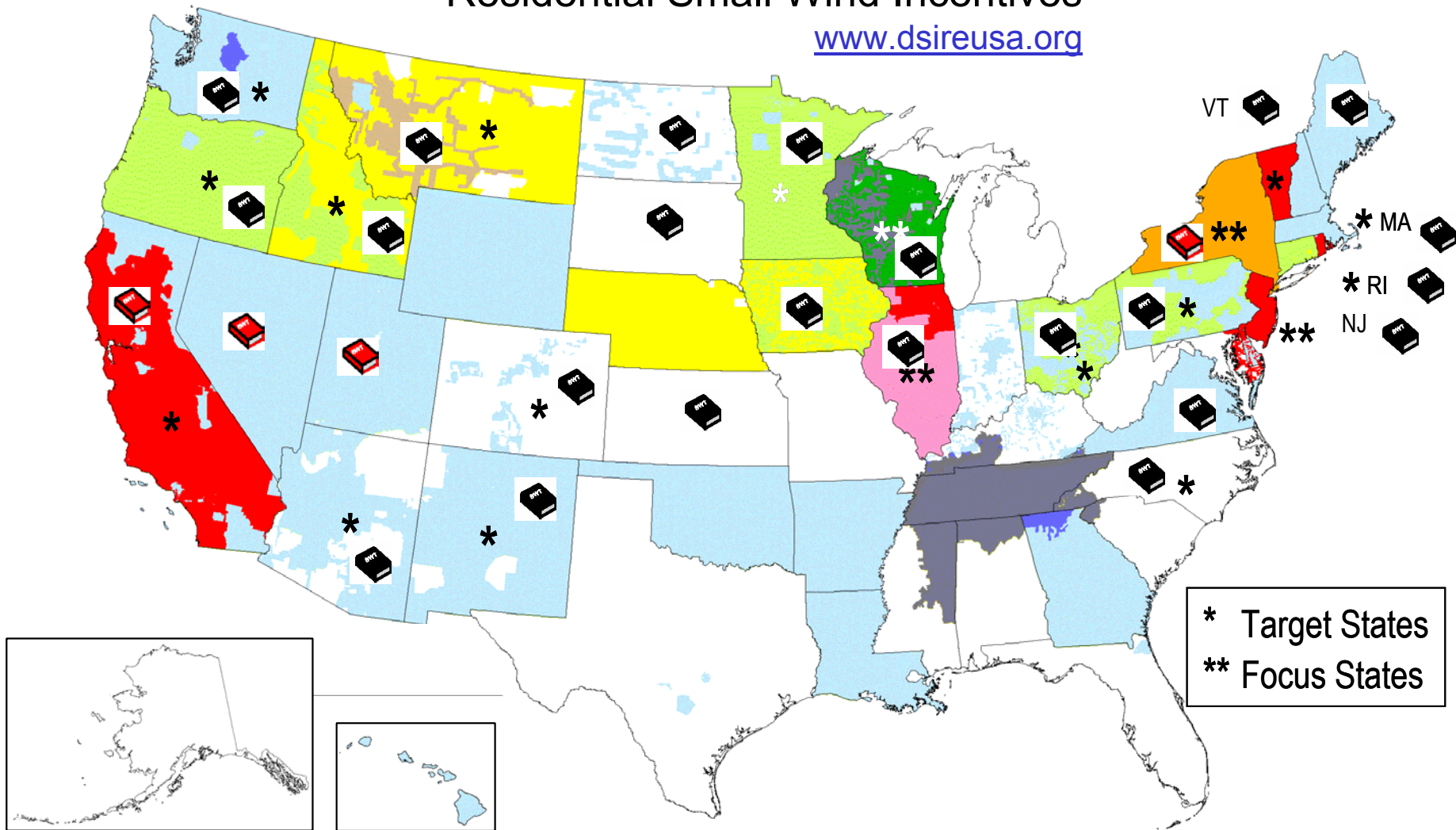
Net Metering

*In Minnesota, loans apply only to farmers.





Grants available in Connecticut, Virginia and Pennsylvania (First Energy and Penelec SEF)

Residential Small Wind Incentives



www.dsireusa.org



BUYDOWNS

	Buydown		Buydown, Net Metering, & Loans
	Buydown & Net Metering		Buydown & Net Metering & Loans

PROD. INCENTIVES

	Productivity Incentives & Loans
	Net Metering, Loans & Prod. Incentives

MINOR INCENTIVES

	Loans		Net Metering & Loans ¹
	Net Metering & Prod. Incentives		Net Metering

¹ In Minnesota, loans apply only to farmers.

Mar 26, 2004



FY05 Milestones

- Joule Milestones – Phil Dougherty
 - 15020
 - Develop a user-friendly financial form for USDA grant applicants. 03/31/05
 - Convene the IREC Small Wind Stakeholder group. 06/30/05
 - WPA staff will give 3 presentations on small wind at State Workshops. 03/31/05
 - Already met Jim Green (NC) & Trudy Forsyth (TX & WA) – 11/15/04
 - Developing a “installed DWT MW” metric on a trial basis for future evaluation



FY05 DWT WPA

- Larry Flowers – 0.5 FTE-months
- Trudy Forsyth – 4.0 FTE-months
- Jim Green – 2.0 FTE-months
- Tony Jimenez – 1.5 FTE-months
- Subcontracts
 - IREC \$40k
 - Michael Arquin \$8k
 - Timlynn Babitsky \$7k
 - Tom Hoff, Clean Power Estimator \$10k





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IREC Distributed Wind Project



INTERSTATE RENEWABLE ENERGY COUNCIL

*...providing communication and coordination
among state stakeholders*

- Monthly e-newsletter
 - over 520 subscribers and growing (3 new people/day)
- Web Site news and resources
- Annual State Stakeholder Meeting – May 15, 2005

see www.smallwindenergynews.org



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Consumer's Guides

- **Produced 23 state specific guide**
 - printed 56,800 (18,250 paid by RO or other organizations)
- **Other non-state guides**
 - Tennessee Valley Authority (printed 2000 – pd by TVA)
 - American Corn Growers Assn. (printed 2500 – pd by ACGF)
 - Illinios Commonwealth Edison – exchange for 100m wind data
- **US Guide**
 - Produced 42,300 hardcopy
 - 74,376 downloads on WPA page since 1/02
- **FY05 Trends - will complete cover development but have to find other \$\$\$ for printing costs**



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Wind in Schools

www.kidwind.org

- Developing wind energy curriculum 5-12
- Working with Michael Arquin – KidWind
- Coordinate curriculum development with wind turbine school installations
- Leverage funds for workshops throughout the US
- Hold curriculum workshops in CO prior to Windpower 2005
 - Tentative agreement with AWEA to allow teachers access to Windpower 2005 Opening Reception
- Link with existing Solar School projects
- Work with NREL Education office to spread the word



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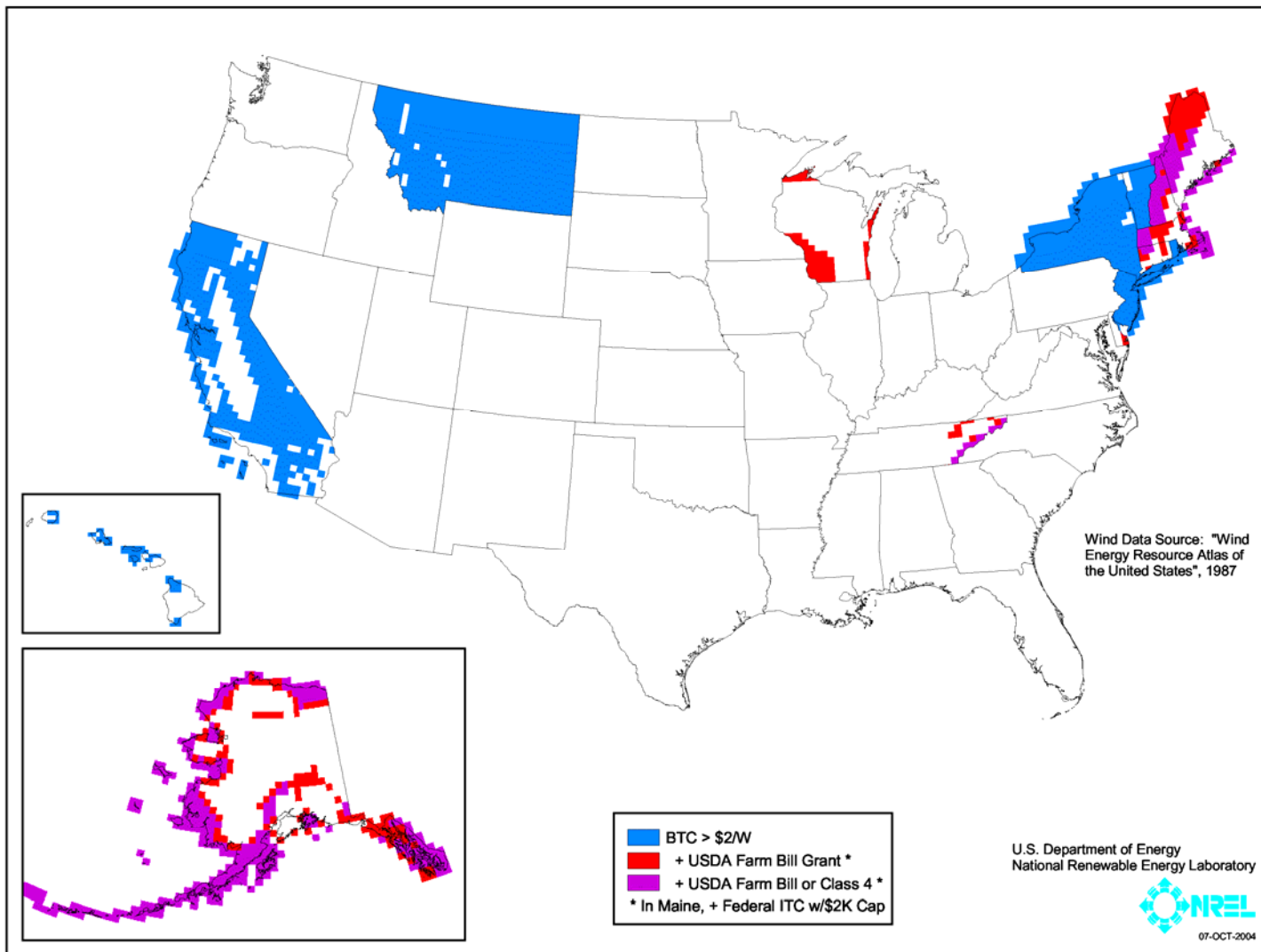
Future WPA DWT plans

- Set up an advisory committee - hold annual meetings
 - Policy folks, Grass roots organizers, State stakeholders
- Work with specific states (OR, MA, KS, TN, OH, NJ - not finalized) on small wind policy options
- How to link with solar industry on policy issues?
- Revise the USDA Farm Bill Sample Technical Report into Checklist/Fill-in the blank format
 - Continue to give targeted presentations on the USDA Farm Bill and Distributed Wind
- Develop a Clean Power Estimator output that meets USDA Farm Bill Financial sheet requirements
- US Zoning Survey & Zoning Model Ordinance



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Initial Results of LBL/NREL study





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Future of Distributed Wind Turbines

- Wind Powering America - very involved in market, education and outreach across US
 - Targets distributed wind as growth area in outyears
- Market (incentives) and product lines are expanding
- Continuing to look for leveraged opportunities to work with renewables industry as a group